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### Proposal

For this project, I decided to go a bit outside of my comfort zone and try something that I previously did not have the tools to do. Because I am interested in the networking aspects of Java and I happen to have a Linux1 server running for another class, I have decided to write some code that will essentially be an FTP service that will allow the user to push files (or at least copies of files) to the remote server and hopefully allow the user to pull files from the server as well.

I suspect that a significant amount of work will need to be put into this project, as I not only need to be able to transfer files but also handle login information that will allow the user to login and will not leave my server completely open or force me to give out my server login information.

Essentially, the code will connect to the server, allow the user to login using the credentials they set (if this is possible; if not I will supply my information and limit the accessible section of the server to a subfolder of the root folder), and then select a file from their local disc. The code will then transfer (or at least copy, which is safer) the selected file to the server. If I have time, I would like to also build out the capability to download a copy of a file on the server to the user's local disc, about which I am more worried as the user might accidentally download a virus potentially added by another user (which seems unlikely, considering that the only person likely to use this service is me, but I like safety).